

# SEQUENCE LISTING

<110> Rothman, James  
Mayhew, Mark  
Hoe, Mee

<120> KDEL RECEPTOR INHIBITORS

<130> 31488

<160> 36

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 46

<212> PRT

<213> rat

<400> 1

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			20					25					30		
Thr	Phe	Leu	Lys	Asn	Thr	Val	Met	Glu	Cys	Asp	Ala	Cys	Gly		
		35					40						45		

<210> 2

<211> 46

<212> PRT

<213> human

<400> 2

Ser	Asp	Leu	Gly	Pro	Gln	Met	Leu	Arg	Glu	Leu	Gln	Glu	Thr	Asn	Ala
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Ala	Leu	Gln	Asp	Val	Arg	Asp	Trp	Leu	Arg	Gln	Gln	Val	Arg	Glu	Ile
			20					25					30		
Thr	Phe	Leu	Lys	Asn	Thr	Val	Met	Glu	Cys	Asp	Ala	Cys	Gly		
		35					40						45		

<210> 3

<211> 46

<212> PRT

<213> mouse

<400> 3

Gly	Glu	Gln	Thr	Lys	Ala	Leu	Val	Thr	Gln	Leu	Thr	Leu	Phe	Asn	Gln
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20                      25                      30  
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 35                      40                      45

<210> 4  
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<400> 4  
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 20                      25                      30  
 Ser Leu Ile Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly  
 35                      40                      45

<210> 5  
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 <212> PRT  
 <213> human

<400> 5  
 Gly Asp Phe Asn Arg Gln Phe Leu Gly Gln Met Thr Gln Leu Asn Gln  
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 Leu Leu Gly Glu Val Lys Asp Leu Leu Arg Gln Gln Val Lys Glu Thr  
 20                      25                      30  
 Ser Phe Leu Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly  
 35                      40                      45

<210> 6  
 <211> 46  
 <212> PRT  
 <213> xenopus laevis

<400> 6  
 Gly Asp Val Ser Arg Gln Leu Ile Gly Gln Ile Thr Gln Met Asn Gln  
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 Met Leu Gly Glu Leu Arg Asp Val Met Arg Gln Gln Val Lys Glu Thr  
 20                      25                      30  
 Met Phe Leu Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly  
 35                      40                      45

<210> 7  
 <211> 27  
 <212> PRT  
 <213> human

<400> 7  
 Gln Lys Leu Gln Asn Leu Phe Ile Asn Phe Cys Leu Ile Leu Ile Cys  
 1                      5                      10                      15

Leu Leu Leu Ile Cys Ile Ile Val Met Leu Leu  
20 25

<210> 8  
<211> 9  
<212> PRT  
<213> human papilloma virus

<400> 8  
Leu Leu Leu Gly Thr Leu Asn Ile Val  
1 5

<210> 9  
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<212> PRT  
<213> human papilloma virus

<400> 9  
Leu Leu Met Gly Thr Leu Gly Ile Val  
1 5

<210> 10  
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<212> PRT  
<213> human papilloma virus

<400> 10  
Thr Leu Gln Asp Ile Val Leu His Leu  
1 5

<210> 11  
<211> 9  
<212> PRT  
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<400> 11  
Gly Leu His Cys Tyr Glu Gln Leu Val  
1 5

<210> 12  
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<212> PRT  
<213> human papilloma virus

<400> 12  
Pro Leu Lys Gln His Phe Gln Ile Val  
1 5

<210> 13  
<211> 115  
<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric rat comp

<400> 13

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 1              5              10              15
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Leu Ala Pro Gln Met
      20              25              30
Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp Val Arg Glu
      35              40              45
Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys Asn Thr Val
      50              55              60
Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr Pro Gly Thr
65              70              75              80
Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro
      85              90              95
Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys
      100              105              110
Asp Glu Leu
      115
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<210> 14

<211> 387

<212> DNA

<213> Artificial Sequence

<220>

<223> chimeric rat COMP-KDEL

<400> 14

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cgggccgagg gatccagcct ggggtggagac ctagcccccac agatgcttcg agaactccag      120
gagactaatg cggcgctgca agacgtgaga gagctcttgc gacagcaggt caaggagatc      180
accttcctga agaatacggg gatggaatgt gacgcttgcg gaatgcagcc cgcacgcacc      240
cccgggtacta gtccgcagcc gcagccgaaa ccgcagccgc agccgcagcc gcagccgaaa      300
ccgcagccga aaccggaacc ggaagggtacc ggatcatcag aaaaagatga gttgtaggcg      360
gccgcagaat tccatatgca tctcgag                                     387
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<210> 15

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric rat COMP-KDEL

<400> 15

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Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
 1              5              10              15
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Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Pro Gln Met  
20 25 30  
Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp Val Arg Glu  
35 40 45  
Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys Asn Thr Val  
50 55 60  
Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr Pro Gly Thr  
65 70 75 80  
Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro  
85 90 95  
Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys  
100 105 110  
Asp Glu Leu  
115

<210> 16  
<211> 387  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> chimeric rat COMP-KDEL

<400> 16  
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cgggccgagg gatccagcct ggggtggagac tggtgtccac agatgcttcg agaactccag 120  
gagactaatg cggcgctgca agacgtgaga gagctcttgc gacagcaggt caaggagatc 180  
accttcctga agaatacggg gatggaatgt gacgcttgcg gaatgcagcc cgcacgcacc 240  
cccgggtacta gtccgcagcc gcagccgaaa ccgcagccgc agccgcagcc gcagccgaaa 300  
ccgcagccga aaccggaacc ggaaggtagc ggatcatcag aaaaagatga gttgtaggcg 360  
gccgcagaat tccatagca tctcgag 387

<210> 17  
<211> 105  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> chimeric mouse TSP3-KDEL

<400> 17  
Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala  
1 5 10 15  
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Lys Ala Leu  
20 25 30  
Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val Glu Leu Arg Asp  
35 40 45  
Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile Arg Asn Thr Ile  
50 55 60  
Met Glu Cys Gln Val Cys Gly Pro Gln Pro Gln Pro Lys Pro Gln Pro  
65 70 75 80

Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly  
85 90 95  
Thr Gly Ser Ser Glu Lys Asp Glu Leu  
100 105

<210> 18  
<211> 357  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> chimeric mouse TSP3-KDEL

<400> 18  
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cgggccgagg gatccagcct ggggtggagac tggtgtaagg cattggtcac ccagctcacc 120  
ctcttcaacc agatcctagt ggagcttcgg gacgacatcc gagaccagg gaaggaaatg 180  
tcactcatcc ggaacacccat catggagtgt caggtgtgct gtccgcagcc gcagccgaaa 240  
ccgcagccgc agccgcagcc gcagccgaaa ccgcagccga aaccggaacc ggaaggatcc 300  
ggatcatcag aaaaagatga gttgtaggcg gccgcagaat tccatatgca tctcgag 357

<210> 19  
<211> 109  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> chimeric mouse TSP3-KDEL

<400> 19  
Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala  
1 5 10 15  
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Glu Gln  
20 25 30  
Thr Lys Ala Leu Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val  
35 40 45  
Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile  
50 55 60  
Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly Pro Gln Pro Gln Pro  
65 70 75 80  
Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro  
85 90 95  
Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu  
100 105

<210> 20  
<211> 369  
<212> DNA  
<213> Artificial Sequence

<220>

<223> chimeric mouse TSP3-KDEL

<400> 20

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acccagctca	ccctcttcaa	ccagatccta	gtggagcttc	gggacgacat	ccgagaccag	180
gtgaaggaaa	tgctactcat	ccggaacacc	atcatggagt	gtcaggtgtg	cggtccgcag	240
ccgcagccga	aaccgcagcc	gcagccgcag	ccgcagccga	aaccgcagcc	gaaaccggaa	300
ccggaaggta	ccggatcatc	agaaaaagat	gagttgtagg	cggccgcaga	attccatattg	360
catctcgag						369

<210> 21

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric Xenopus laevis TSP4-KDEL

<400> 21

Met	Gly	Lys	Phe	Thr	Val	Val	Ala	Ala	Ala	Leu	Leu	Leu	Leu	Gly	Ala
1				5					10					15	
Val	Arg	Ala	Glu	Gly	Ser	Ser	Leu	Gly	Gly	Asp	Cys	Cys	Gly	Asp	Val
		20						25					30		
Ser	Arg	Gln	Leu	Ile	Gly	Gln	Ile	Thr	Gln	Met	Asn	Gln	Met	Leu	Gly
		35				40					45				
Glu	Leu	Arg	Asp	Val	Met	Arg	Gln	Gln	Val	Lys	Glu	Thr	Met	Phe	Leu
	50					55					60				
Arg	Asn	Thr	Ile	Ala	Glu	Cys	Gln	Ala	Cys	Gly	Pro	Gln	Pro	Gln	Pro
65					70					75				80	
Lys	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Lys	Pro	Gln	Pro	Lys	Pro
			85					90						95	
Glu	Pro	Glu	Gly	Thr	Gly	Ser	Ser	Glu	Lys	Asp	Glu	Leu			
		100						105							

<210> 22

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> chimeric Xenopus laevis TSP4-KDEL

<400> 22

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ggccagataa	cccaaagtga	tcagatgctg	ggagagctcc	gagatgtcat	gagacagcag	180
gtgaaagaga	ccatgttctt	gagaaacacc	attgcagaat	gccaggcctg	tggcccgcag	240
ccgcagccga	aaccgcagcc	gcagccgcag	ccgcagccga	aaccgcagcc	gaaaccggaa	300
ccggaaggta	ccggatcatc	agaaaaagat	gagttgtagg	cggccgcaga	attccatattg	360
catctcgag						369

<210> 23  
 <211> 109  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> chimeric human COMP-KDEL

<400> 23  
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Ala Val Cys Ser  
 1 5 10 15  
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Ser Asp Leu  
 20 25 30  
 Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln  
 35 40 45  
 Asp Val Arg Asp Trp Leu Arg Gln Gln Val Arg Glu Ile Thr Phe Leu  
 50 55 60  
 Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Pro Gln Pro Gln Pro  
 65 70 75 80  
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro  
 85 90 95  
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu  
 100 105

<210> 24  
 <211> 372  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> chimeric human COMP-KDEL

<400> 24  
 aagcttacca tgggaaggta catgatttta ggcttgctcg cccttgcggc agtctgcagc 60  
 gctgccaaaa aaggatccag cctgggtgga gactgttggt cagacctggg cccgcagatg 120  
 cttcggaac tgcaggaaac caacgcggcg ctgcaggacg tgcgggaactg gctgcggcag 180  
 caggtcaggg agatcacgtt cctgaaaaac acggtgatgg agtgtgacgc gtgcggggccg 240  
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300  
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcggccgc agaattccat 360  
 atgcattctc ag 372

<210> 25  
 <211> 90  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> chimeric human PLB-KDEL

<400> 25  
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Ala Val Cys Ser



1 5 10 15  
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Gln Lys Leu  
 20 25 30  
 Gln Asn Leu Phe Ile Asn Phe Cys Leu Ile Leu Ile Cys Leu Leu Leu  
 35 40 45  
 Ile Cys Ile Ile Val Met Leu Leu Pro Gln Pro Gln Pro Lys Pro Gln  
 50 55 60  
 Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu  
 65 70 75 80  
 Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu  
 85 90

<210> 26  
 <211> 315  
 <212> DNA  
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<220>  
 <223> chimeric human PLB-KDEL

<400> 26  
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 gctgccaaaa aaggatccag cctgggtgga gactgttgtc aaaagctaca gaatctatct 120  
 atcaatttct gtctcatctt aatatgtctc ttgctgatct gtatcatcgt gatgctttctc 180  
 ccgcagccgc agccgaaacc gcagccgcag ccgcagccgc agccgaaacc gcagccgaaa 240  
 ccggaaccgg aaggtaccgg atcatcagaa aaagatgagt ttagggcggc cgcagaattc 300  
 catatgcac tcgag 315

<210> 27  
 <211> 109  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> chimeric human TSP3-KDEL

<400> 27  
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Ala Val Cys Ser  
 1 5 10 15  
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Glu Gln  
 20 25 30  
 Thr Lys Ala Leu Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val  
 35 40 45  
 Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile  
 50 55 60  
 Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly Pro Gln Pro Gln Pro  
 65 70 75 80  
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro  
 85 90 95  
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu  
 100 105

<210> 28  
 <211> 372  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> chimeric human TSP3-KDEL

<400> 28  
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 gtcaccagc tcacctctt caaccagatc ctagtggagc ttcgggacga catccgagac 180  
 caggtgaagg aaatgtcact catccggaac accatcatgg agtgtcaggt gtgcggtccg 240  
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300  
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcggccgc agaattccat 360  
 atgcatctcg ag 372

<210> 29  
 <211> 109  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> chimeric human TSP4-KDEL

<400> 29  
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Ala Val Cys Ser  
 1 5 10 15  
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Asp Phe  
 20 25 30  
 Asn Arg Gln Phe Leu Gly Gln Met Thr Gln Leu Asn Gln Leu Leu Gly  
 35 40 45  
 Glu Val Lys Asp Leu Leu Arg Gln Gln Val Lys Glu Thr Ser Phe Leu  
 50 55 60  
 Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly Pro Gln Pro Gln Pro  
 65 70 75 80  
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro  
 85 90 95  
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu  
 100 105

<210> 30  
 <211> 372  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> chimeric human TSP4-KDEL

<400> 30  
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 ttgggtcaaaa tgacacaatt aaaccaactc ctgggagagg tgaaggacct tctgagacag 180  
 caggttaagg aaacatcatt tttgcgaaac accatagctg aatgccaggc ttgcggtccg 240  
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300  
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcggccgc agaattccat 360  
 atgcatctcg ag 372

<210> 31  
 <211> 8  
 <212> PRT  
 <213> unknown

<400> 31  
 Tyr Thr Ser Glu Lys Asp Glu Leu  
 1 5

<210> 32  
 <211> 8  
 <212> PRT  
 <213> unknown

<400> 32  
 Leu Asn Tyr Phe Asp Asp Glu Leu  
 1 5

<210> 33  
 <211> 9  
 <212> PRT  
 <213> unknown

<400> 33  
 Cys Asp Cys Arg Gly Asp Cys Phe Cys  
 1 5

<210> 34  
 <211> 134  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> KDEL/myc

<400> 34  
 Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala  
 1 5 10 15  
 Val Arg Ala Glu Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu  
 20 25 30  
 Tyr His Pro Asn Ser Thr Cys Gly Ser Ser Leu Gly Gly Asp Cys Cys  
 35 40 45  
 Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp  
 50 55 60

Val Arg Glu Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys  
65 70 75 80  
Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr  
85 90 95  
Pro Gly Thr Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln  
100 105 110  
Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser  
115 120 125  
Ser Glu Lys Asp Glu Leu  
130

<210> 35  
<211> 444  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> KDEL-myc

<400> 35  
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cgggccgagg gatccgaaca aaaacttatt tctgaagaag acttgtacca cccaaactca 120  
acatgcggat ccagcctggg tggagactgt tgtccacaga tgcttcgaga actccaggag 180  
actaatgcgg cgctgcaaga cgtgagagag ctcttgcgac agcaggtcaa ggagatcacc 240  
ttcctgaaga atacggtgat ggaatgtgac gcttgcgga tgcagcccg acgcaccccc 300  
ggtactagtc cgcagccgca gccgaaaccg cagccgcagc cgcagccgca gccgaaaccg 360  
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gcagaattcc atatgcatct cgag 444

<210> 36  
<211> 10  
<212> PRT  
<213> human myc tag

<400> 36  
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu  
1 5 10